

DATE

SECRET

1	RYD	9
2		10
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INTEL

TO

FROM

ACTION

INFO

IN 90304

OSA 1-20

TO

INFO

SECRET 282028Z CITE

PRIORITY

OXCART

SUBJ: EVALUATION OF BLACK SHIELD MISSION BX6706

CHE
BDD
PH
RP
KB
DB
AF
NM
DJ

1. CAMERA SERIAL E, TYPE I, WAS USED ON MISSION BX6706.

THE EXPOSURE WAS GOOD. PROCESSING WAS ACCOMPLISHED AT

THERE ARE A TOTAL OF 1,372 FRAMES IN THE MISSION.

2. BOTH CAMERAS OPERATED SATISFACTORILY THROUGHOUT THE MISSION;

3. A GOOD CORRELATION WAS OBTAINED BETWEEN THE INS DATA, THE PHOTOGRAPHIC IMAGERY AND THE DATA CHAMBER RECORDINGS. THE CLOCK IN THE DATA CHAMBER STOPPED AT 1 HOUR AND 56 MINUTES AFTER NAVMODE INITIATION (FRAME 611); THE LATITUDE AND LONGITUDE FROM

SECRET

GROUP 1
EXCLUDED FROM AUTO-
MATIC DOWNGRADING
AND DECLASSIFICATION

IN 90804

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THE DATA CHAMBER WAS USED FOR CORRELATION OF THE BALANCE OF THE MISSION.

4. FRAMES 1-658 WERE EXPOSED AT 1/190 OF A SECOND, FRAMES 659-1072 WERE EXPOSED AT 1/170 OF A SECOND AND FRAMES 1073-1372 WERE EXPOSED AT 1/190. ALL FRAMES RECEIVED FULL PROCESSING AND THE DIFFERENCES IN EXPOSURES CANNOT BE DETECTED. BOTH EXPOSURES ARE ACCEPTABLE FOR THE TERRAIN REFLECTIVITY OVER WHICH THEY WERE FLOWN. A LONGER EXPOSURE WOULD PROVIDE MORE INFORMATION IN CLOUD SHADOW AREAS BUT COULD CAUSE TOO HEAVY A DENSITY THOROUGH-OUT THE BALANCE OF THE IMAGERY. LESS THAN TWO PERCENT OF THE IMAGERY IS IN CLOUD SHADOWS, THEREFORE, IT IS RECOMMENDED THAT THE PRESENT EXPOSURE BE USED AS THE STANDARD UNTIL THERE IS A CHANGE IN THE SOLAR ELEVATION OR OTHER CONDITIONS THAT WILL AFFECT THE EXPOSURE.

5. NO PHOTOGRAPHY WAS ACQUIRED DURING THE ASCENDING AND DESCENDING PORTIONS OF THE MISSION. THE ALTITUDE RANGED BETWEEN 76,000 AND 81,000 FEET. NO DATA REDUCTION PROBLEMS WERE ENCOUNTERED DURING VEHICLE MANEUVERING.

6. A TIME HISTORY OF EVENTS AFFECTING THE EXPLOITATION OF THE MATERIAL [REDACTED] BASED ON ELAPSED TIME FROM A/C TOUCHDOWN ARE:

TIME	
HR-MIN	EVENT
02-30	RECEIPT OF INS TRANSMISSION
15-07	RECEIPT OF D-VALUES
28-39	MATERIAL ARRIVED [REDACTED]
39-30	RECEIPT OF UNTITLED REPRODUCTIONS [REDACTED]

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[REDACTED] S E C R E T

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44-00 FINAL FRAME EPHEMERIS COMPLETED

49-00 INITIAL READ OUT COMPLETED

25X1 54-30 IPIR SENT [REDACTED]

7. FRAMES 1073-1149 WERE ACQUIRED WITH SCANNED V/H, THE BALANCE OF THE MATERIAL WAS ACQUIREDED WITH PROGRAMMED V/H. NO DIFFERENCE COULD BE DETECTED IN THE IMAGERY. THE CAMERA SYSTEM CAGED 16 TIMES INCLUDING THE CAGING THAT IS NORMALLY EXPECTED IN TURNS. THE CAGING INDICATOR IN THE DATA CHAMBER DOES NOT CORRELATE EXACTLY WITH THE CAGING INDICATIONS ON THE INS TAPE BUT THIS IS ATTRIBUTED TO MICROSECOND DELAYS IN THE TWO SYSTEMS.

25X1

8. THERE IS NO INS DATA AVAILABLE FOR [REDACTED] THESE FRAMES WERE ACQUIRED DURING CAMERA RUN-DOWN AFTER A CAMERA OFF AND ARE CONSIDERED BONUS FRAMES.

9. THE FILM METERED PROPERLY THROUGHOUT THE MISSION WITH THE ONLY OVERLAP OCCURRING AT CAMERA OFF/ONS. MINUS DENSITY STREAKS, CAUSED BY FOREIGN MATTER IN THE SLIT APERTURE, ARE MINIMAL.

10. CLOUDS OBSCURED 30 PERCENT OF THE PHOTOGRAPHY. GROUND HAZE IN THE VALLEYS AND ALONG THE COAST REDUCED THE ACUITY OF THE IMAGERY IN THOSE AREAS.

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